Alto 818SC / Alto 818SX

Key Features

- **Fully integrated access control and alarm monitoring system**

- **Reads multiple card types**

- **Supports multiple reader technologies:**
  - *Analog proximity sensors*
  - *Keypads*
  - *Digital proximity readers (818SC only)*

- **Up to 36 inch card-reading range (818SC only)**

- **11,200 card capacity when connected to WSE host**

- **120 access codes when connected to WSE host**

- **4,000 transaction buffer provides protection against communication loss**

- **System flexibility**

- **UL294 Listed (818SX only)**

- **Tested, ready-to-run system**

- **Westinghouse Security Electronics 15-month hardware warranty**

Advanced access control

systems with virtually

unlimited flexibility

Westinghouse Security Electronics
an ISO 9001 certified company

✆ **USA: 800 232-9090** ✆ **Europe: 31-71-541-7197**

The Alto 818 is an advanced access control unit that can manage the security of a worldwide corporation as easily as the security system of a single building. When integrated with a Westinghouse Security Electronics host system, the Alto 818 provides virtually unlimited access control flexibility.

Maximum control

A complete proximity access control and alarm monitoring system, the Alto 818 controls up to 8 entrances, monitors up to 32 input points, allows up to 11,200 individually numbered command keys, facilitates up to 120 unique access codes, and stores up to 4,000 event logs.

The Access Control Unit (ACU) monitors and controls up to eight Multiple Switch Monitors (SE 774A), each monitoring four input points. Power supply options include a power module developed exclusively for the Alto 818 (SE 3018), or one with battery backup capability that provides continuing operation if power fails (SE3718S). An eight-point annunciator device (SE 778A) is also available for additional relay output or building mode control.

Multiple reader technology

Further enhancing system flexibility, Alto 818 controllers support multiple access control and reader technologies. The Alto 818SX supports analog proximity sensors and keypads, plus compact, medium-range, standard, non-incendive and intrinsically safe sensors. The 818SC is identical to the 818SX but also adds support for DigiReader™ and smart card readers. Though the 818SC does not support medium-range analog sensors, its support for digital technologies gives the 818SC a read range from four to 36 inches* when used with the Westinghouse family of digital readers.

Fully networkable

The Alto 818 is fully functional as a stand-alone system, or it can be linked with multiple units from a central location using

either an SE 5850 or SE 6000 host. The SE 5850 can accommodate up to 32 directly connected units; the SE 6000 can manage thousands of ACUs for even the largest applications.

BASIC FEATURES

Access control
- WSE host compatibility
- Extended protocol
- Clock (time/date/year)
- Group key programming
- Increased transient protection on relay outputs
- Route trace of specific keys
- Program, clock, building, mode and data maintained if power fails
- User-defined lock/unlock schedule
- Hard/soft anti-passback with "forgiveness"
- Adjustable unlock/shunt/relock time
- Manual lock/unlock from host
- Normal and reverse lock operation
- Open/forced door detection
- Interface for printer
- Interface to RS232C and 20mA
- Optional event storage, recall and centralized database with SE 5850 or SE 6000 host computer
- Keypad capability
- Supports analog proximity sensors
  - *SE 2814 and SE 2815A sensors*
  - *Non-incendive and intrinsically safe sensors*
- Recognizes analog proximity cards (1030/1040/1050/1060 keys)

818SX-specific features
In addition to the above, the 818SX
- is UL-294 Listed
- supports medium range analog sensors (medium range sensors not available in USA)
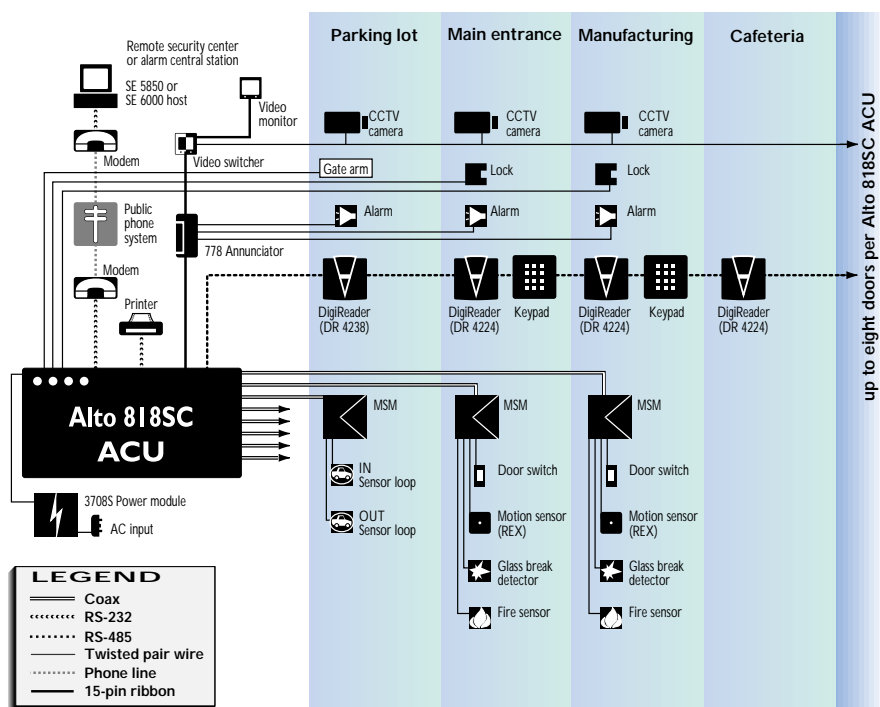
818SC-specific features
In addition to the above, the 818SC
- recognizes WSE's DuraKey™, QuadraKey™ and other digital command keys
- supports the complete line of WSE's 4200 Series DigiReaders for maximum read ranges from four to 36 inches, as follows:*
  - *DR 4204   maximum   4 inches*
  - *DR 4208   "   10 inches*
  - *DR 4226   "   24 inches*
  - *DR 4238   "   36 inches*

Alarm monitoring
- Contact names (24 characters)
- Contact assignable to any function
- Provision for remote mode switches
- Contact designation as alarm/non-alarm event
- Latched master alarm contact (SE778A)

Alto 818SC System sample configuration

	Parking lot	Main entrance	Manufacturing	Cafeteria

Remote security center or alarm central station
SE 5850 or SE 6000 host
Video monitor
Modem
Video switcher
Public phone system
778 Annunciator
Modem
Printer
Alto 818SC ACU
3708S Power module
AC input

CCTV camera — CCTV camera — CCTV camera
Gate arm — Lock — Lock
Alarm — Alarm — Alarm
DigiReader (DR 4238) — DigiReader (DR 4224) — Keypad — DigiReader (DR 4224) — Keypad — DigiReader (DR 4224)
MSM — MSM — MSM
IN Sensor loop — Door switch — Door switch
OUT Sensor loop — Motion sensor (REX) — Motion sensor (REX)
Glass break detector — Glass break detector
Fire sensor — Fire sensor

up to eight doors per Alto 818SC ACU

LEGEND
- Coax
- RS-232
- RS-485
- Twisted pair wire
- Phone line
- 15-pin ribbon

Maximum read ranges may vary depending on physical environment of installation and type of Command Key used

Alto 818SC/818SX System features

Access Control

• Access control locations	8
• Cardholders (Command Keys) without names	11,200
• Cardholders with names	4,400
• Access codes	120
• Time intervals	128
• Log buffer	4,000

Alarm Monitoring

• Monitored contacts (774A)	32
• Output zone contacts (778A)	8
• Output contact (lock relays)	8

Alto 818SX System sample configuration

Hardware features
- Front panel access — internal board easily accessible
- Transmit/receive indicator lights
- Detachable Phoenix connectors for easy field installation
- Internal "Goof" switch
- Disable battery option for longer shelf life
- Internal reset button
- Coax cable for readers and SE 774A Multiple Switch Monitor allows distances to 1,000 feet between ACU and reader
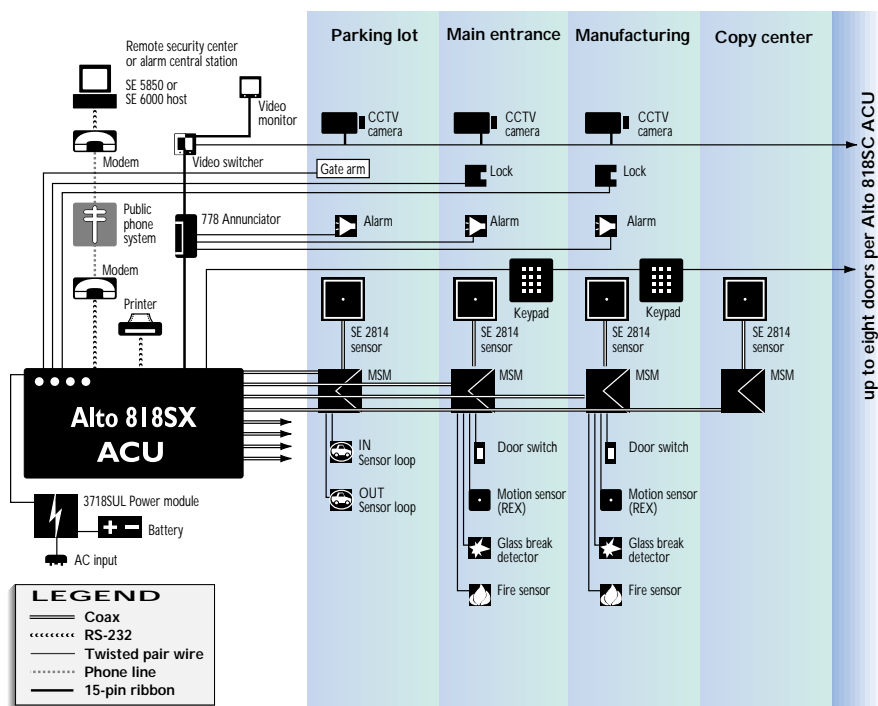- Dual twisted-pair wiring for VIP-2 keypad allows distances to 4,000 feet

818SC-specific features
- Optional power inserter for powering digital readers and/or smart card readers

BENEFITS
- 11,200 key capability with WSE host allows for larger system applications
- Compact sensor is attractive, fits any decor
- Virtually unlimited flexibility with 120 access codes per ACU when used with WSE host
- Flexible design allows easy system expansion — additional units can be added as the installation grows

- Improves communication speed and efficiency through enhanced communications protocol
- Expanded buffer for 4,000 transactions provides protection against data loss due to communication failure
- Multiple reader technologies provide greater user flexibility
- Additional system versatility is available with the use of keypad-only feature
- Keypad capability provides greater security when used in conjunction with card readers
- Increases value and marketability of any building or property
- Digital reader capabilities provide read range of up to 36 inches when used with the WSE DuraKey™ or QuadraKey™ digital command keys (818SC only)

APPLICATIONS
- In new and remodeled office buildings, hospitals, industrial buildings, government installations or universities where an integrated access control and alarm monitoring system is required.
- In organizations that want access control at multiple locations but not the expense of hiring additional security personnel.
- At locations requiring a distributed security system with central management that allows access to multiple sites using a single proximity card.
- Where reliable and proven proximity technology is needed to control access and to track cardholders.
- Anywhere control and reporting functions for an access control system can be used in conjunction with a WSE host.
- In facilities requiring a multiple Command Key program
- In facilities where a stand-alone or integrated security management system is required to reduce overall security costs
- In applications that range over entire facilities, or within specified floor areas.
- In applications where modular system design with non-obsolescence is needed.

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Alto 818SC / Alto 818SX

SPECIFICATIONS

Alto 818SX ACU

Access Control Unit and alarm monitoring system with highly flexible feature set and powerful performance. Supports multiple access control technologies and analog sensors.

- **Dimensions:** 18 x 10.5 x 2.25 in. (45.72 x 26.67 x 6 cm)
- **Weight:** 25 lb. (11.25 kg)
- **Environmental:** 20° to 120° F (-7° to 49° C)
- **Humidity:** 10% to 95%, non-condensing

Alto 818SC ACU

Adds support for digital readers.

- **Dimensions:** Same as Alto 818SX

SE 3018 Supply Module

Input reconnectable for 120/230 VAC, 50/60 Hz. Output of 25 VAC .5AMP, 16 VAC 1 AMP. UL listed.

- **Dimensions:** 7 x 5.7 x 3.1 in. (17.8 x 14.5 x 7.9 cm)
- **Weight:** 3 lb. (1.35 kg)
- **Environmental:** 20° to 120° F (-7° to 49° C)
- **Humidity:** 10% to 95%, non-condensing

3718S Uninterruptible Power Module

115/230V Input, 16V & 25V Output; 12 VDC or 24 VDC Lock Power. Uses 12V sealed lead acid battery.

- **Dimensions:** 18 x 7.2 x 5.2 in. (45.7 x 18.3 x 13.2 cm)
- **Weight:** 16 lb. (7.2 kg)
- **Environmental:** 20° to 120° F (-7° C to 49° C)
- **Humidity:** 10% to 95%, non-condensing

SE 778A Remote Annunciator Control Module

Provides 8 dry contact outputs plus status and latched alarm outputs. Max: one (1) per ACU.

- **Dimensions:** 3 x 11.4 x 1.5 in. (7.6 x 28.9 x 3.8 cm)
- **Weight:** 0.88 lb. (0.4 kg)
- **Environmental:** 20° to 120° F (-7° to 49° C)
- **Humidity:** 10% to 95%, non-condensing

SE 774A Multiple Switch Contact Monitor

Provides four dry contact input points. Supports higher voltages required for longer card read ranges. Compatible with WSE Sensors. Max: 8

- **Dimensions:** 4.5 x 4.5 x 2.3 in. (11.4 x 11.4 x 5.8 cm)
- **Weight:** 1.0 lb. (0.45 kg)
- **Environmental:** 20° to 120° F (-7° to 49° C)
- **Humidity:** 10% to 95%, non-condensing

SE 2804 Compact Sensor

Compact Sensor for mounting on indoor surfaces. Read range to 3 inches. See SE 2804 Compact Sensor data sheet.

SE 2814A/2815A Card Reading Sensors

Lexan-encased vandal-proof and weather-proof. Mount on surface, behind glass or concealed in wall. See SE 2814A/2815A Card Reading Sensor data sheet.

SE 2834/2835 Non-incendive Safe Sensors

Lexan-encased sensors for use in hazardous environments where flammable gases or vapors, or combustible dusts are present. See SE 2834A/2835A Card Reading Sensor data sheet.

VIP-2 Keypad:

RS-485 connected numeric keypad with 4 or 5 digit PIN. Three (3) LED indicators for: Present Card, Enter PIN, and Door Open. Includes one (1) Tamper Input. Requires separate power source. WSE Power Inserter is recommended. See VIP-2 Keypad data sheet.

SE 1050 or SE 1060 Command Key

Highly durable analog command key for use with Proximity 2814A/2815A sensors. See SE 1050 and SE 1060 Command Key data sheets.

DigiReader™ digital proximity readers (Alto 818SC only)

Digital readers with award-winning design have read ranges from 4 to 36 in. (10.16 to 91.44 C). Read ranges may vary depending on physical environment of installation and on Command Key used. See individual data sheets for DR 4204, DR 4208 DR 4226 and DR 4238 for read ranges and other specifications.

QuadraKey™ Digital Command Key (Alto 818SC only)

The same size and thickness as a credit card, the QuadraKey™ supports the following technologies: digital proximity, magnetic stripe, photo ID with color imaging on both sides of card, bar code, and smart card. See QuadraKey™ data sheet.

DuraKey™ Digital Command Key (Alto 818SC only)

Highly durable, multiple technology digital command key. See DuraKey™ data sheet.

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